

**FIG. 1**

## *Step 2: Treatment Info.*

□ TN - DOSE REPORTER V2.31

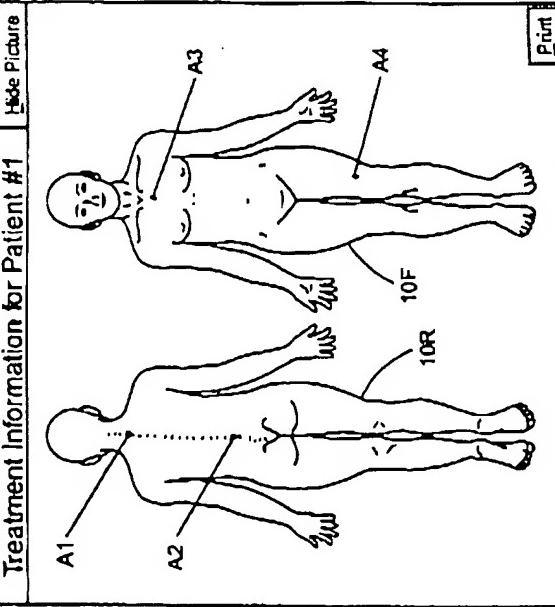
Patient Count = 4  
Current Patient #1  
*John Smith*

Ⓐ Patient #1  
 Ⓑ Patient #2

Current Patient #1  
*John Smith*

Dosimeter - Assigning Table

Dosimeter	Patient	Site of Dosimeter	Target Dose
A1	#1	Rear Neck	50 cGy
A2	#1	Lower Back	40 cGy
A3	#1	Chest	100 cGy
A4	#1	L thigh	40 cGy



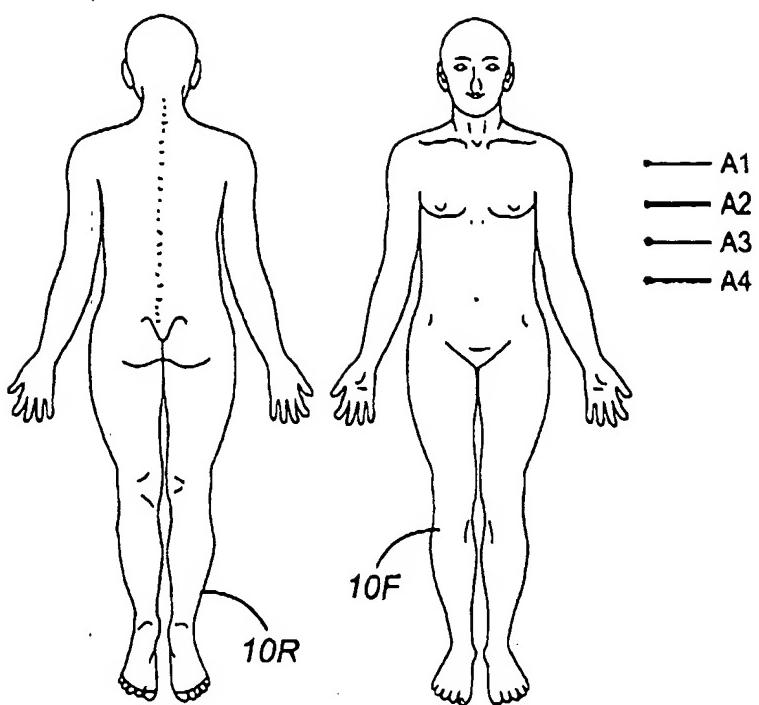
- To assign (or remove) dosimeters, click on 'Dosimeter' column.
- To change image, double click on the current image.
- Right click the image for a menu of available image-operations.

2000-10-02

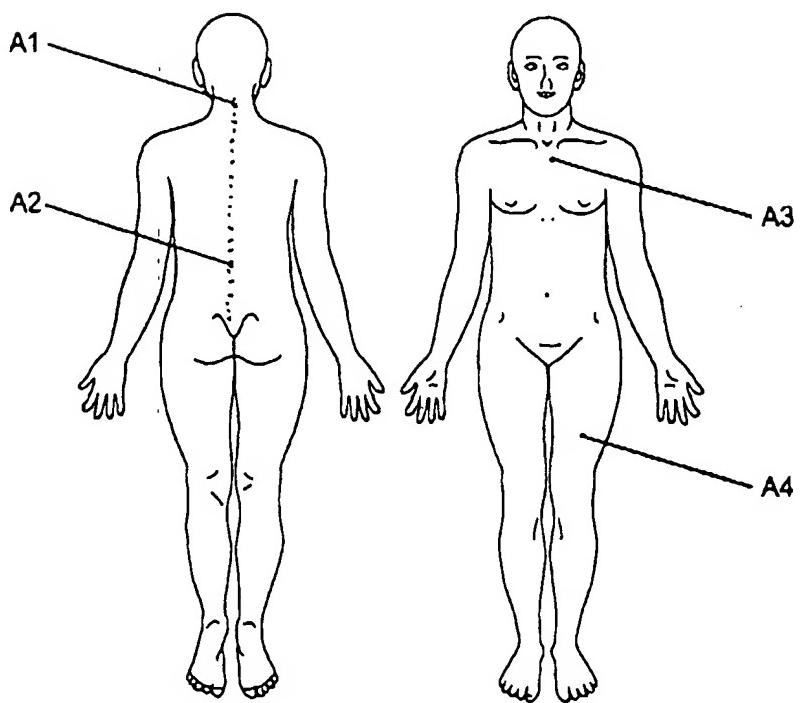
Cancel

Exit

FIG. 2



**FIG. 3A**



**FIG. 3B**

## DOSIMETRY REPORT

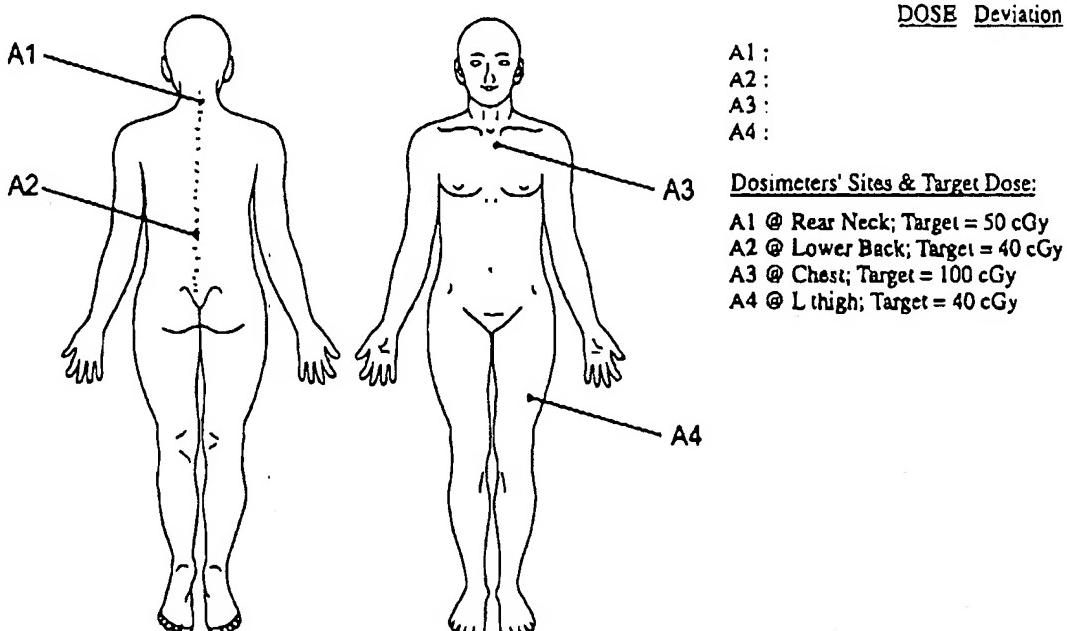
Patient Name : John Smith

Registry # : 123456789

Time / Date : 14:28 / Oct 10 2000

Gender : M

Fraction : 2nd	Gantry Angle : 90 deg.	Field Size : 10 x 10
Wedges : None	SSD : 90 cm	Machine Type : Linac
Block : Yes	MU : 100	Machine S/N : 345
Energy : 8 MV	Collimation : None	Reader S/N : 381



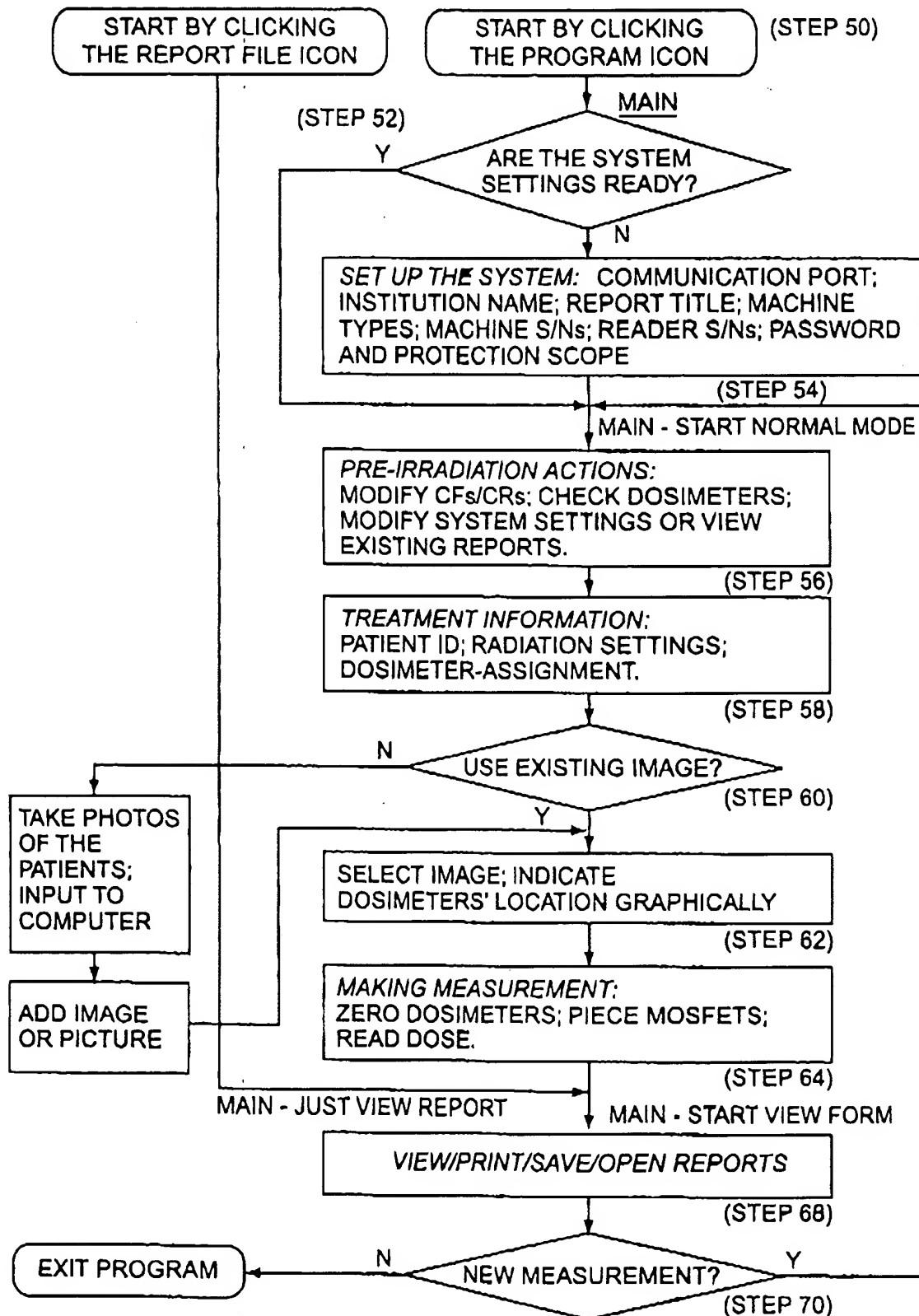
(Image: #0)

Comments : All doses in specification

Operator \_\_\_\_\_ Date \_\_\_\_\_

Reviewed by \_\_\_\_\_ Date \_\_\_\_\_

**FIG. 4**

**FLOWCHART OF HOW TO USE TN-DOSE REPORTER SOFTWARE V2.3**

**FIG. 5**

TN - DOSE REPORTER V2.31

## Setting Up The System

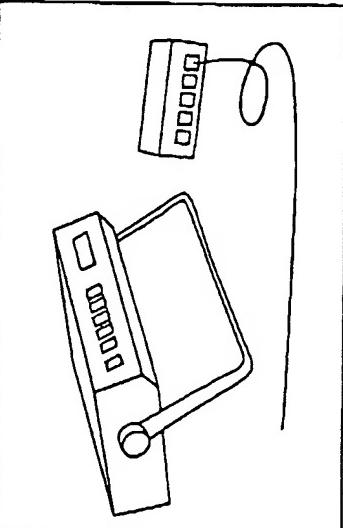
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Communication</b>		
Institution Name	Report Title	DOSIMETRY REPORT
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="button" value="Serial Port : COM 1 -"/>	<p>You must tell the program which serial port is used to communicate with TN-RD-50 Reader.</p> <p>If in doubt, follow these steps :</p> <ol style="list-style-type: none"> <li>(1) : Ensure that the TN-RD-50 Reader has been connected to this computer.</li> <li>(2) : Choose one port from the</li> </ol> 	
<input type="button" value="Input new S/N here."/>	<input type="button" value="Add"/>	<input type="button" value="Remove"/>
<input type="button" value="List of Readers' S/N"/>	<input type="button" value="Input new type here."/>	<input type="button" value="Add"/>
<input type="button" value="List of Machine Type"/>	<input type="button" value="Input new S/N here."/>	<input type="button" value="Add"/>
<input type="button" value="Setting Password"/>	<input type="button" value="Cancel"/>	<input type="button" value="Modify"/>
<input type="button" value="Apply"/>	<input type="button" value="OK"/>	<input type="button" value="2000-10-02"/>
To accept the current settings, click 'Apply'. Otherwise, click 'Cancel'.		

FIG. 6A

Calibrating Parameters						Dosimeter Checking Records		Clear
Dosimeter	CF	CR	Time	Total Voltage	Notes			
A1	01.00 mVCgy	1.000						
A2	01.00 mVCgy	1.000						
A3	01.00 mVCgy	1.000						
A4	01.00 mVCgy	1.000						
A5	01.00 mVCgy	1.000						
B1	01.00 mVCgy	1.000	08:50:55	TOTAL: 12.638 mV				
B2	01.00 mVCgy	1.000	08:50:55	TOTAL: 17.417 mV				
B3	01.00 mVCgy	1.000	08:50:55	TOTAL: 17.221 mV				
B4	01.00 mVCgy	1.000	08:50:55	TOTAL: 11.3 mV				
B5	01.00 mVCgy	1.000	08:50:55	TOTAL: 11.3 mV				
C1	01.00 mVCgy	1.000						
C2	01.00 mVCgy	1.000						
C3	01.00 mVCgy	1.000						
C4	01.00 mVCgy	1.000						
C5	01.00 mVCgy	1.000						
D1	01.00 mVCgy	1.000						
D2	01.00 mVCgy	1.000						
D3	01.00 mVCgy	1.000						
D4	01.00 mVCgy	1.000						
D5	01.00 mVCgy	1.000						

Reader's Messages

Show All     Hide Recent

SETUP UNIT:  
LOCATION:  
ENERGY:  
SSD:  
GANTRY ANGLE:  
COLLIMATOR:  
FIELD SIZE:  
EXPOSURE:

08:50:55 2000-10-02  
ZERO DOSIMETERS

B1 TOTAL: 12.638 mV  
B2 TOTAL: 17.417 mV  
B3 TOTAL: 17.221 mV  
B4 TOTAL: 11.3 mV  
B5

2000-10-02

Current Action:  
Check Dosimeters

To check dosimeters, connect the corresponding Bias Supply to the Reader, and press the Reader's START button (or ZERO button) for 1 second.

FIG. 6B

Step 2: Treatment Info.																																																																																							
<input type="checkbox"/> TN - DOSE REPORTER V2.31																																																																																							
<b>Treatment Information for Patient #1</b> <a href="#">Show Picture</a>																																																																																							
< Patient Information > <table border="1"> <tr><td>First Name:</td><td>John</td></tr> <tr><td>Last Name:</td><td>Smith</td></tr> <tr><td>Registry #:</td><td>12345678</td></tr> <tr><td>Gender (M/F):</td><td>M</td></tr> </table>				First Name:	John	Last Name:	Smith	Registry #:	12345678	Gender (M/F):	M																																																																												
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Gender (M/F):	M																																																																																						
< Radiation Settings > <table border="1"> <tr><td>Energy:</td><td>18 MV</td></tr> <tr><td>SSD:</td><td>90 cm</td></tr> <tr><td>Gantry Angle:</td><td>0 deg.</td></tr> <tr><td>Collimation:</td><td>NA</td></tr> <tr><td>Field Size:</td><td>10 x10</td></tr> <tr><td>MU:</td><td>100</td></tr> </table>				Energy:	18 MV	SSD:	90 cm	Gantry Angle:	0 deg.	Collimation:	NA	Field Size:	10 x10	MU:	100																																																																								
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Collimation:	NA																																																																																						
Field Size:	10 x10																																																																																						
MU:	100																																																																																						
Import Existing Treatment Info <table border="1"> <tr><td>Fraction:</td><td>1</td></tr> <tr><td>Wedges:</td><td>None</td></tr> <tr><td>Block:</td><td>None</td></tr> <tr><td>S/N:</td><td>278</td></tr> </table>				Fraction:	1	Wedges:	None	Block:	None	S/N:	278																																																																												
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Block:	None																																																																																						
S/N:	278																																																																																						
Radiation Machine <table border="1"> <tr><td>Type:</td><td>Linac</td></tr> <tr><td>S/N:</td><td>156</td></tr> <tr><td colspan="2">TN-RD-50 Reader</td></tr> <tr><td>S/N:</td><td>278</td></tr> </table>				Type:	Linac	S/N:	156	TN-RD-50 Reader		S/N:	278																																																																												
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<b>Dosimeter - Assigning Table</b> <table border="1"> <thead> <tr> <th>Dosimeter</th> <th>Patient</th> <th>Site of Dosimeter</th> <th>Target Dose</th> </tr> </thead> <tbody> <tr><td>A1</td><td></td><td></td><td></td></tr> <tr><td>A2</td><td></td><td></td><td></td></tr> <tr><td>A3</td><td></td><td></td><td></td></tr> <tr><td>A4</td><td></td><td></td><td></td></tr> <tr><td>A5</td><td></td><td>#1</td><td>100 cGy</td></tr> <tr><td>B1</td><td>#1</td><td>Site 1</td><td>100 cGy</td></tr> <tr><td>B2</td><td>#1</td><td>Site 2</td><td>100 cGy</td></tr> <tr><td>B3</td><td>#1</td><td>Site 3</td><td>100 cGy</td></tr> <tr><td>B4</td><td>#1</td><td>Site 4</td><td>100 cGy</td></tr> <tr><td>B5</td><td>#1</td><td>Site 5</td><td>100 cGy</td></tr> <tr><td>C1</td><td></td><td></td><td></td></tr> <tr><td>C2</td><td></td><td></td><td></td></tr> <tr><td>C3</td><td></td><td></td><td></td></tr> <tr><td>C4</td><td></td><td></td><td></td></tr> <tr><td>C5</td><td></td><td></td><td></td></tr> <tr><td>D1</td><td></td><td></td><td></td></tr> <tr><td>D2</td><td></td><td></td><td></td></tr> <tr><td>D3</td><td></td><td></td><td></td></tr> <tr><td>D4</td><td></td><td></td><td></td></tr> <tr><td>D5</td><td></td><td></td><td></td></tr> </tbody> </table>				Dosimeter	Patient	Site of Dosimeter	Target Dose	A1				A2				A3				A4				A5		#1	100 cGy	B1	#1	Site 1	100 cGy	B2	#1	Site 2	100 cGy	B3	#1	Site 3	100 cGy	B4	#1	Site 4	100 cGy	B5	#1	Site 5	100 cGy	C1				C2				C3				C4				C5				D1				D2				D3				D4				D5			
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<input type="button" value="2000-10-02"/>																																																																																							
<input type="button" value="Back to Step 1"/> <input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Exit"/>																																																																																							

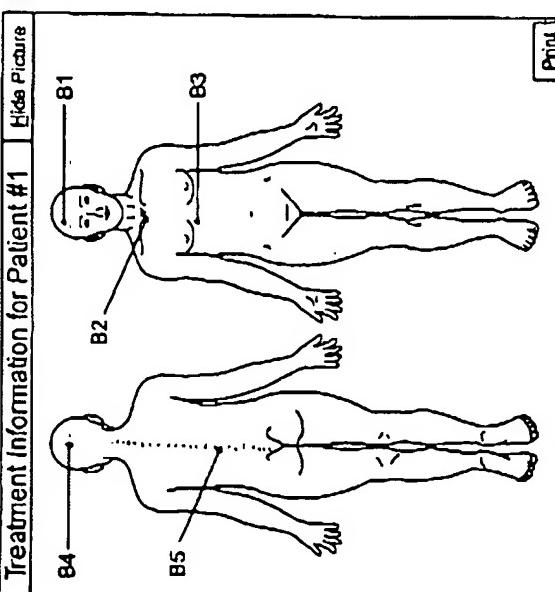
FIG. 6C

TN - DOSE REPORTER v2.31

**Step 2: Treatment Info.**

Patient Count = <input type="text" value="4"/>	<input checked="" type="radio"/> Patient #1	<input type="radio"/> Patient #2
	<input type="radio"/> Patient #3	<input type="radio"/> Patient #4
Current Patient: #1 John Smith		

Dosimeter - Assigning Table			
Dosimeter	Patient	Site of Dosimeter	Target Dose
A1			
A2			
A3			
A4			
A5			
B1	#1	Site 1	100 cGy
B2	#1	Site 2	100 cGy
B3	#1	Site 3	100 cGy
B4	#1	Site 4	100 cGy
B5	#1	Site 5	100 cGy
C1			
C2			
C3			
C4			
C5			
D1			
D2			
D3			
D4			
D5			

Treatment Information for Patient #1	Hide Picture
	

To change image, double click on the current image.  
 Right click the image for a menu of available image-operations.

2000-10-02

Back to Step 1

Apply

Cancel

Exit

**FIG. 6D**

TN - DOSE REPORTER V2.31

### Step 3: Measuring Dose

Records of Measurement					
Dosimeter	Patient & Site	Time	Voltage	Dose	Target
A1					
A2					
A3					
A4					
A5	#1, Site 1	09:01:42	N/A	100 cGy	0 %
B1	#1, Site 2	09:01:47	N/A	105 cGy	5 %
B2	#1, Site 3	09:01:49	N/A	100 cGy	0 %
B3	#1, Site 4	09:01:51	N/A	100 cGy	0 %
B4	#1, Site 5	09:01:53	N/A	102 cGy	2 %
B5					
C1					
C2					
C3					
C4					
C5					
D1					
D2					
D3					
D4					
D5					

Show All     Hide  
 Show Recent

Reader's Messages

09:01:49 2000-10-02 B3 DOSE: 100 cGy B3 TOTAL: 17.212 mV
09:01:51 2000-10-02 B4 DOSE: 100 cGy B4 TOTAL: 11.3 mV
09:01:53 2000-10-02 B5 DOSE: B5 TOTAL:

2000-10-02

**Recording is ongoing. Connect Reader to BIAS SUPPLY(S), then press its 'READ' button(s). Click on 'Stop' when measurement finished.**

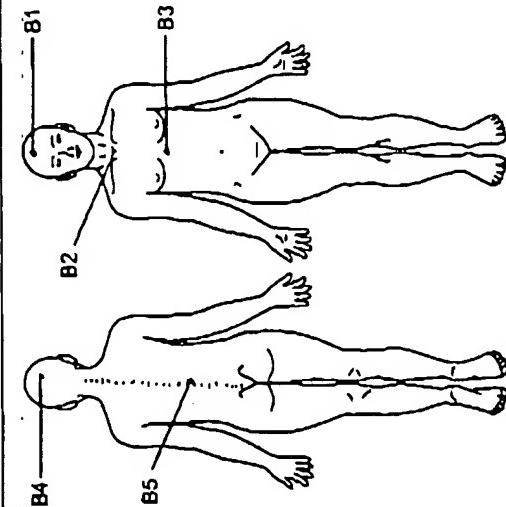
**FIG. 6E**

**Step 4: Viewing/Printing Reports**

The Current Report is of Patient #1

Patient #1	Patient #2	Patient #3	Patient #4	Others
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

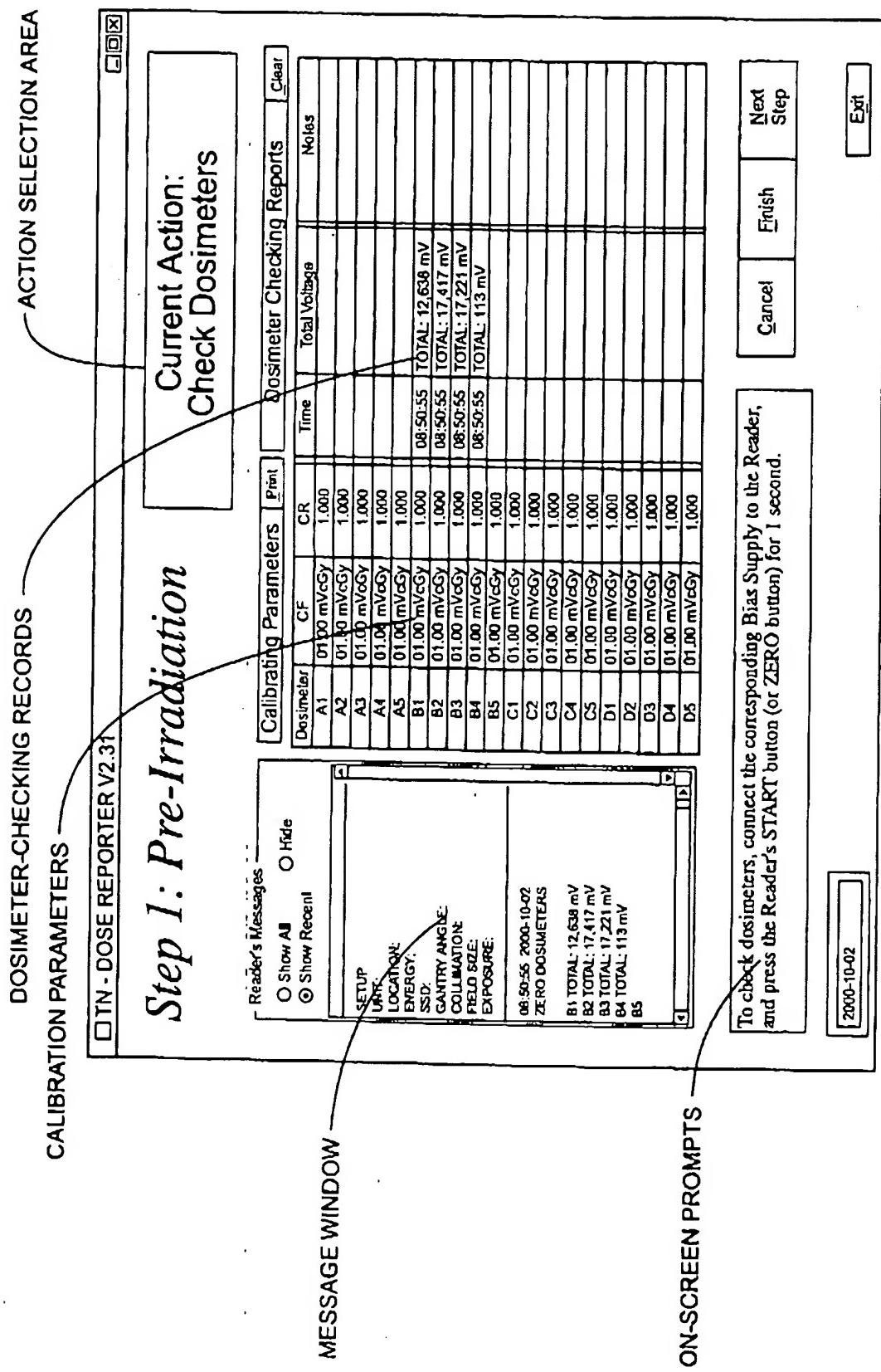
Report Summary	
Patient Name : John Smith	Dose = 100 cGy
Registry # : 12345678	Deviation = 0 %
Gender: M	Dose = 105 cGy
Image : #0	Deviation = 5 %
Finish Time : 09:02 / Oct 02 2000	Dose = 100 cGy
	Deviation = 0 %
	Dose = 100 cGy
	Deviation = 0 %
	Dose = 100 cGy
	Deviation = 0 %
	Dose = 102 cGy
	Deviation = 2 %


--------------------------------------------------------------------------------------

Comments:
Doses within target tolerances.

Click Here To Start A New Measurement	< Back	Print	Save	Open
2000-10-02				
<input type="button" value="Exit"/>				

FIG. 6F

**FIG. 7A**

CHECKED WHEN INPUTTING IS FINISHED

TN - DOSE REPORTER V2.31

## Step 2: Treatment Info.

Treatment Information for Patient #1

< Patient Information >

First Name:	John	Energy:	18 MV
Last Name:	Smith	SSD:	90 cm
Registry #:	12345678	Gantry Angle:	0 deg.
Gender (M/F):	M	Collimation:	N/A
		Field Size:	10 x 10
		MU:	100
< Radiation Machine >			
Fraction:	1	Type:	Linac
Wedges:	None	S/N:	ES6
Block:	None	TN-RD-50 Reader	
< Treatment Plan Rel. >			
Fraction:	1	Type:	Linac
Wedges:	None	S/N:	ES6
Block:	None	TN-RD-50 Reader	

< Radiation Settings >

Dosimeter	Patient	Site of Dosimeter	Target Dose
A1			
A2			
A3			
A4			
A5			
B1	#1	Site 1	100 cGy
B2	#1	Site 2	100 cGy
B3	#1	Site 3	100 cGy
B4	#1	Site 4	100 cGy
B5	#1	Site 5	100 cGy
C1			
C2			
C3			
C4			
C5			
D1			
D2			
D3			
D4			
D5			

PATIENT SELECTION

Patient Count =	4
Current Patient #1	John Smith

- Patient #1
- Patient #2
- Patient #3
- Patient #4

Dosimeter - Assigning Table

Please fill in the treatment information for the current patient.  
 To assign (or cancel) dosimeters, click on the 'Dosimeter' column.  
 To indicate the sites of dosimeters graphically, click on 'Show Picture'.

2000-10-02

**FIG. 7B**

TN - DOSE REPORTER v2.31

POINTER

DOSIMETER LABEL

**Step 2: Treatment Info.**

Patient Count = <input type="text" value="4"/>	<input checked="" type="checkbox"/> Patient #1
Current Patient: #1	<input type="checkbox"/> Patient #2
John Smith	<input type="checkbox"/> Patient #3
	<input type="checkbox"/> Patient #4

Dosimeter - Assigning Table			
Dosimeter	Patient	Site of Dosimeter	Target Dose
A1			
A2			
A3			
A4			
A5			
B1	#1	Site 1	100 cGY
B2	#1	Site 2	100 cGY
B3	#1	Site 3	100 cGY
B4	#1	Site 4	100 cGY
B5	#1	Site 5	100 cGY
C1			
C2			
C3			
C4			
C5			
D1			
D2			
D3			
D4			
D5			

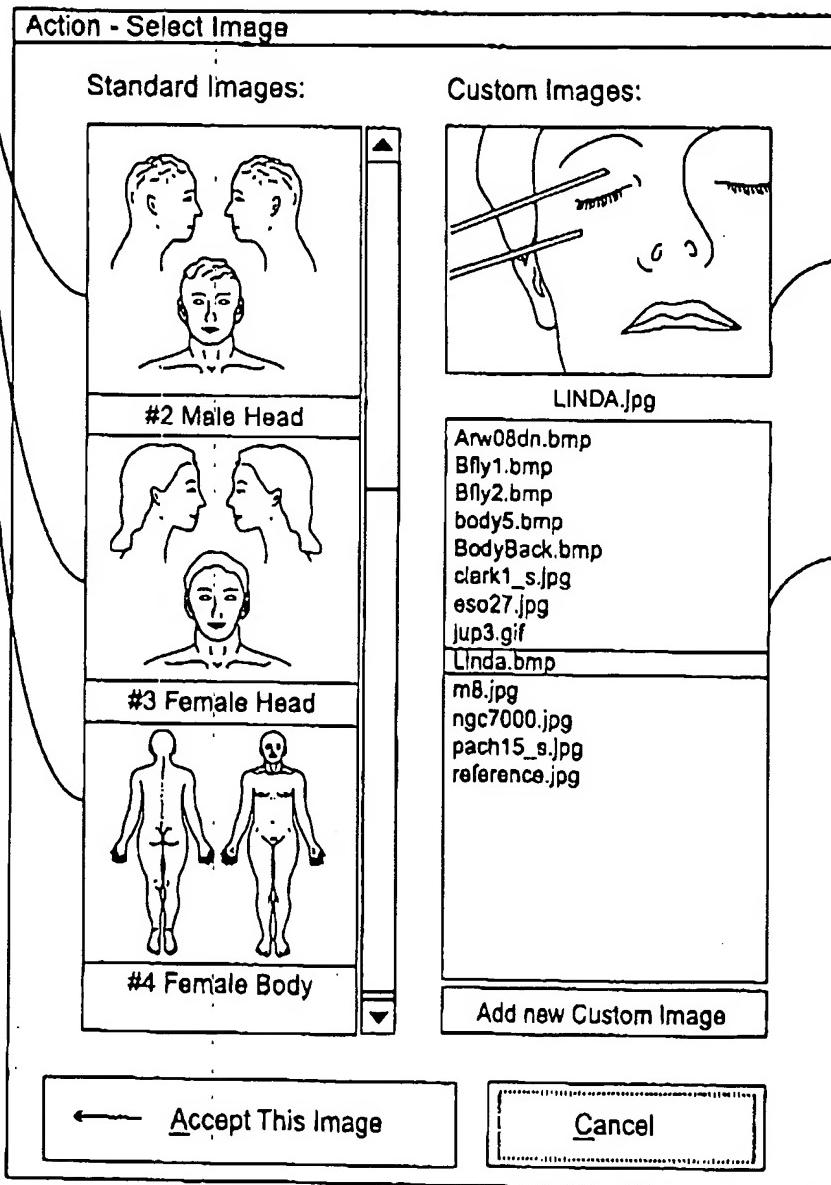
To change image, double click on the current image. Right click the image for a menu of available image-operations.
------------------------------------------------------------------------------------------------------------------------

2000-10-02

<input type="button" value="Back to Step 1"/>	<input type="button" value="Apply"/>	<input type="button" value="Cancel"/>
<input type="button" value="Exit"/>		

**FIG. 7C**

PREVIEW  
WINDOW OF  
STANDARD -  
IMAGES



PREVIEW  
WINDOW OF  
CUSTOM -  
IMAGE

LIBRARY OF  
CUSTOM -  
IMAGES

**FIG. 7D**

TN - DOSE REPORTER V2.31

### Step 3: Measuring Dose

Records of Measurement					
Dosimeter	Patient & Site	Time	Voltage	Dose	Target
A1					
A2					
A3					
A4					
A5	#1, Site 1	09:01:42	N/A	100 cGy	0 %
B1	#1, Site 2	09:01:47	N/A	105 cGy	5 %
B2	#1, Site 3	09:01:49	N/A	100 cGy	0 %
B3	#1, Site 4	09:01:51	N/A	100 cGy	0 %
B4	#1, Site 5	09:01:53	N/A	102 cGy	2 %
B5					
C1					
C2					
C3					
C4					
C5					
D1					
D2					
D3					
D4					
D5					

Show All     Hide  
 Show Recent

Reader's Messages

09:01:50 2000-10-02 B3 DOSE: 100 cGy B3 TOTAL: 17,212 mV
09:01:51 2000-10-02 B4 DOSE: 100 cGy B4 TOTAL: 113 mV
09:01:53 2000-10-02 B5 DOSE: B5 TOTAL:

Back to Step     Record     Stop     Exit

Recording is ongoing. Connect Reader to BIAS SUPPLY(s), then press its READ button(s). Press 'Stop' when measurement finished.

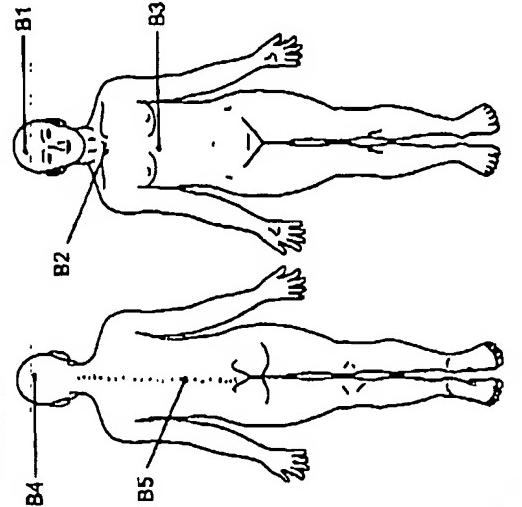
2000-10-02

**FIG. 7E**

TN - DOSE REPORTER V2.31

## Step 4: Viewing/Printing Reports

The Current Report is of Patient #1

Report Summary	
Patient Name : John Smith Registry #: 12345678 Gender : M Image : #0 Finish Time : 09:02 / Oct 02 2000	Doseimeter B1 : Site @ Site 1      Dose = 100 cGy Dose = 0 % Doseimeter B2 : Site @ Site 2      Dose = 105 cGy Deviation = 5 % Doseimeter B3 : Site @ Site 3      Dose = 100 cGy Deviation = 0 % Doseimeter B4 : Site @ Site 4      Dose = 100 cGy Deviation = 0 % Doseimeter B5 : Site @ Site 5      Dose = 102 cGy Deviation = 2 %
	
Comments: Doses within target tolerances.	
<input type="button" value="Click Here To Start A New Measurement"/> <input type="button" value="2000-10-02"/>	
<input type="button" value="Back"/> <input type="button" value="Print"/> <input type="button" value="Save"/> <input type="button" value="Open"/> <input type="button" value="Exit"/>	

**FIG. 7F**